CERTIFICATE OF TRANSMISSION BY FACSIMILE (37 CFR 1.8) Applicant(s): Brian C. Klene et al.	Docket No. 2002-0039-06

Application No.	Filing Date	Examiner	Group Art Unit
10/712,688	11/12/2003	Tuan N. Nguyen	2828

Invention: **LASER LITHOGRAPHY LIGHT SOURCE WITH BEAM DELIVERY**

Following are: Issue Fee Transmittal (in dupl.) (2 pgs.);Comments on Statement of Reasons for Allowance (3 pgs.)

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Atty. Docket No. 2002-0039-06

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Brian C. Klene et al.

Serial No.: 10/712,688

Filing Date: November 12, 2003

Title: LASER LITHOGRAPHY LIGHT SOURCE WITH BEAM DELIVERY

Examiner: Tuan N. Nguyen

Group Art Unit: 2828

Conf. No.: 9075

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COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

With regard to the Examiner's comments on the "Reasons for Allowance" contained in the Notice of Allowance in the above captioned application dated April 22, 2005, applicants submit the following response.

The Examiner has stated that the Reasons for Allowance as to claims 21 and 47 are:

> A beam delivery unit of gas discharge laser comprising an enclosure having a first and second automated turning optic that change direction of the laser output beam, that deliver the pulse beam into a delivery module, where a beam analysis module located close to the delivery module output port that measure on a pulse by pulse basis, beam direction, to provide output control to the laser and automated tuning logic.

This characterization of the recitations of the claim 21 contain several misstatements of what the claims actually recite. The claim recites "at least two optical elements" and "at least one of [which] is an automated optical element" as opposed to "a first and second automated turning optic." The claim recites "for delivering a laser beam ... to the input of a manufacturing tool utilizing the laser light," as opposed to "that deliver the pulse beam into a delivery module." The claim recites "a beam analysis module ... for measuring at least one of the [the following three items] beam pulse energy on a pulse by pulse basis, and beam pointing and beam position," as opposed to "that measure on a pulse by pulse basis, beam direction."

This characterization of the recitations of claim 47 also misstates what the claim recited. The claim recites a first and second turning optic, but also recites "at least one of the first and second turning optics is an automated turning optic," as opposed to "a first and a second automated turning optic." The claim recites "for delivering a laser beam ... to the input of a manufacturing tool utilizing the laser light," as opposed to "that deliver the pulse beam into a delivery module." The claim also recites "a beam analysis module ... for measuring at least one [of the following two items] the beam pulse energy, on a pulse by pulse basis, and beam direction," as opposed to "that measure on a pulse by pulse basis, beam direction."

The Applicants assume that the Examiner meant for the Reasons for Allowance the same claimed elements stated in a way which complies with the actual recitations of the claims such that the Reasons for Allowance should have read as follows:

> A beam delivery unit of a gas discharge laser comprising and enclosure having at least two turning optics at least one of which is an automated turning optic that each change the direction of the laser beam, that delivers the pulse beam to the input of a manufacturing tool utilizing the laser light, where a beam analysis module located close to the delivery module output port measures at least one of beam pulse energy on a pulse by pulse basis, beam direction and beam pointing, to provide output control to the laser and automated tuning logic.

Furthermore, the actual claim recitations being characterized by the Examiner are as follows, e.g., looking at claim 21:

21. A delivery module for delivering a laser beam utilized in a manufacturing process from the output of a gas discharge laser to the input of a manufacturing tool utilizing the laser light comprising:

...

at least two optical elements effecting the at least two changes in direction of the travel of the laser beam;

at least one of the at least two optical elements is an automated optical element having an automated positioner to select the change in direction of the laser light beam effected by the automated optical element;

...

a beam analysis module, located in the delivery unit close to the delivery unit light outlet port, containing measuring equipment for measuring at least one of the beam pulse energy on pulse by pulse basis, and beam pointing, and beam position and for providing an output control signal to the laser and to the automated optical element.

Respectfully submitted,

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